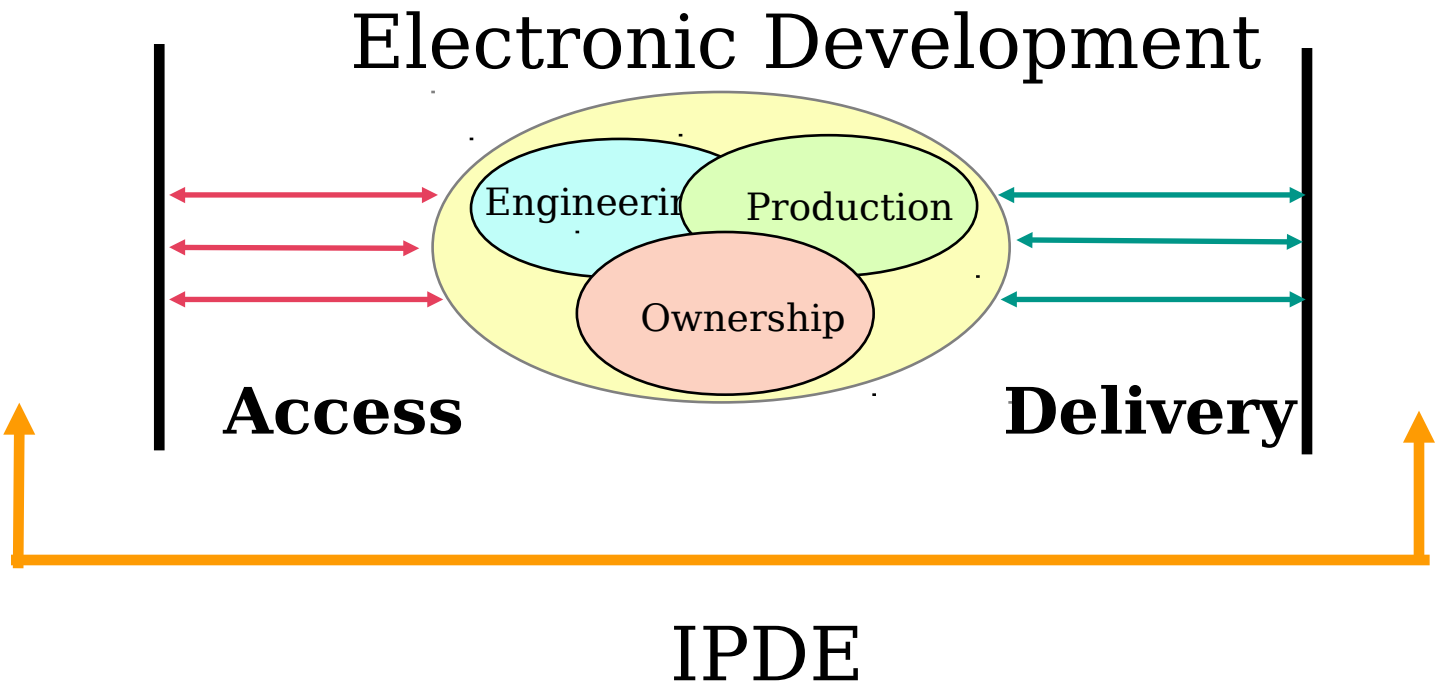
LPD 17 IPDE
(An Update 4/11/2001)

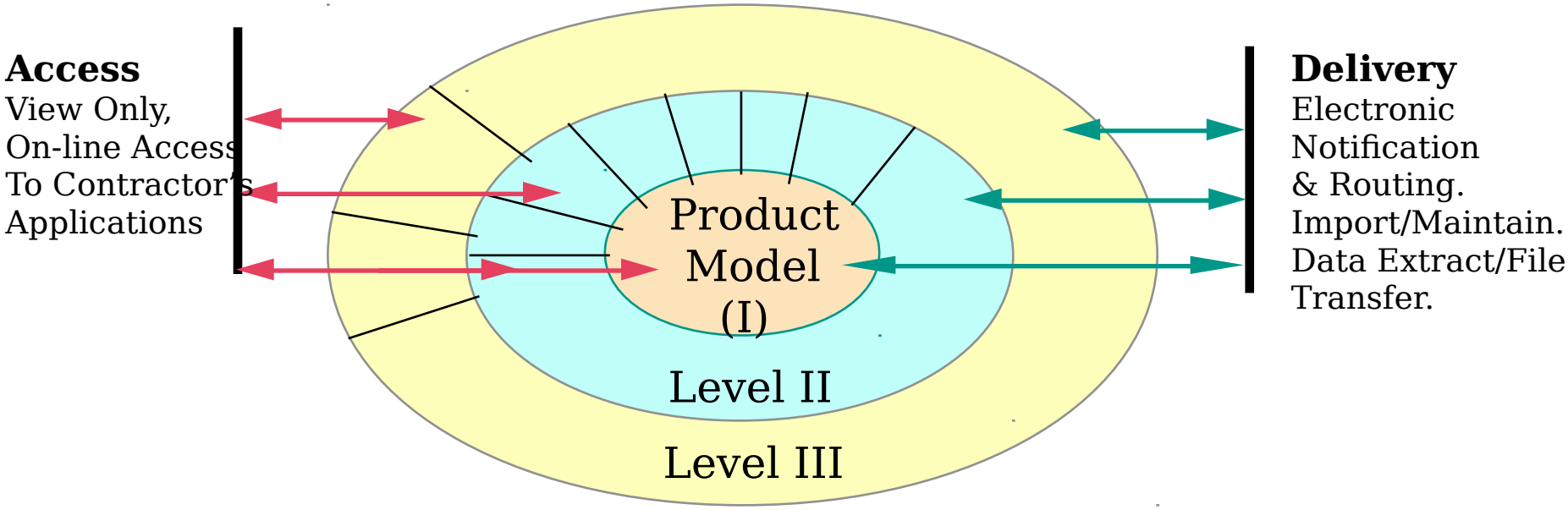
Information Technology Director
(4/11/2001)

1996 IPDE VISION/CONCEPT

Electronic Development, Access and Delivery

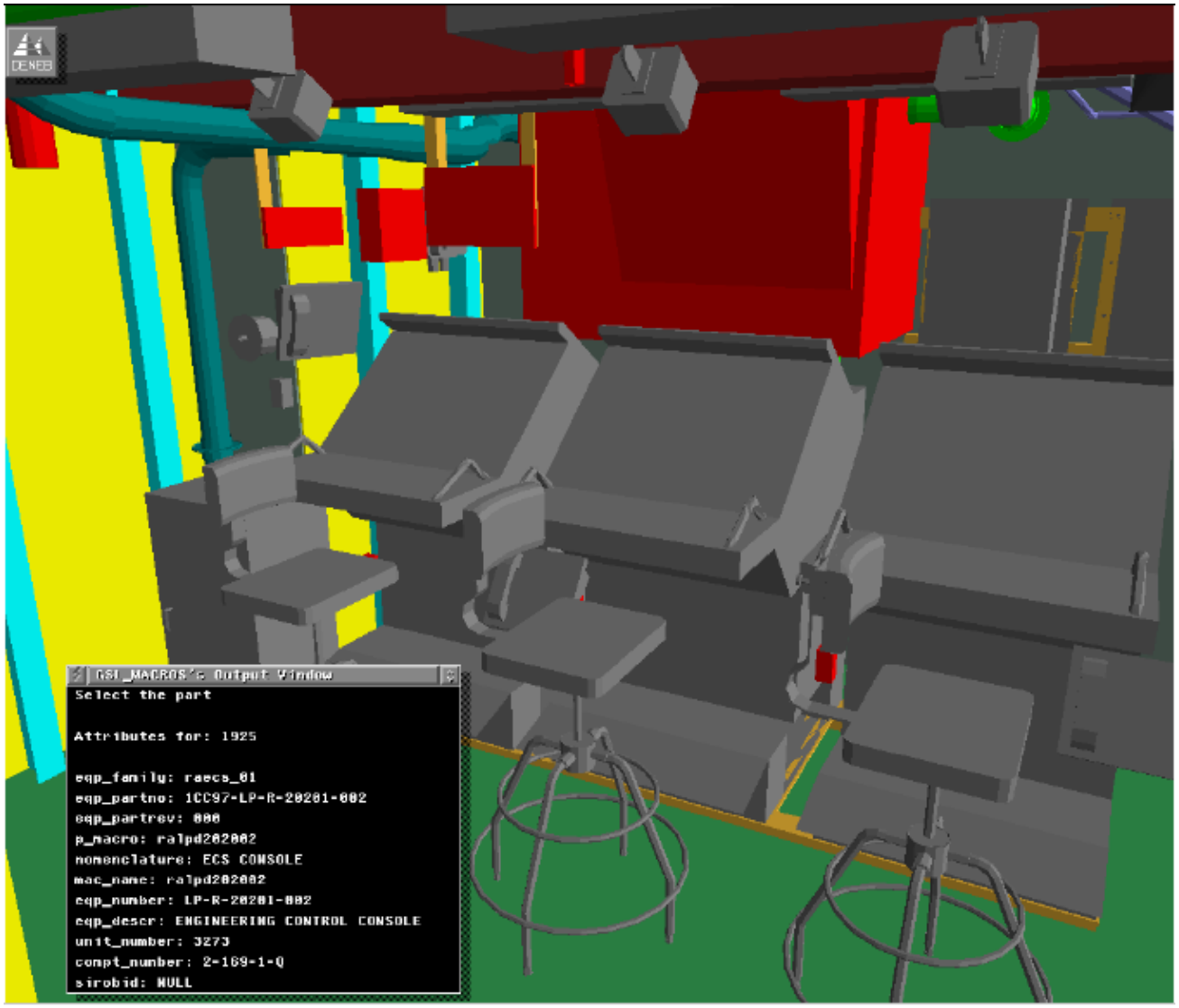


IPDE Goal: Integration of Data

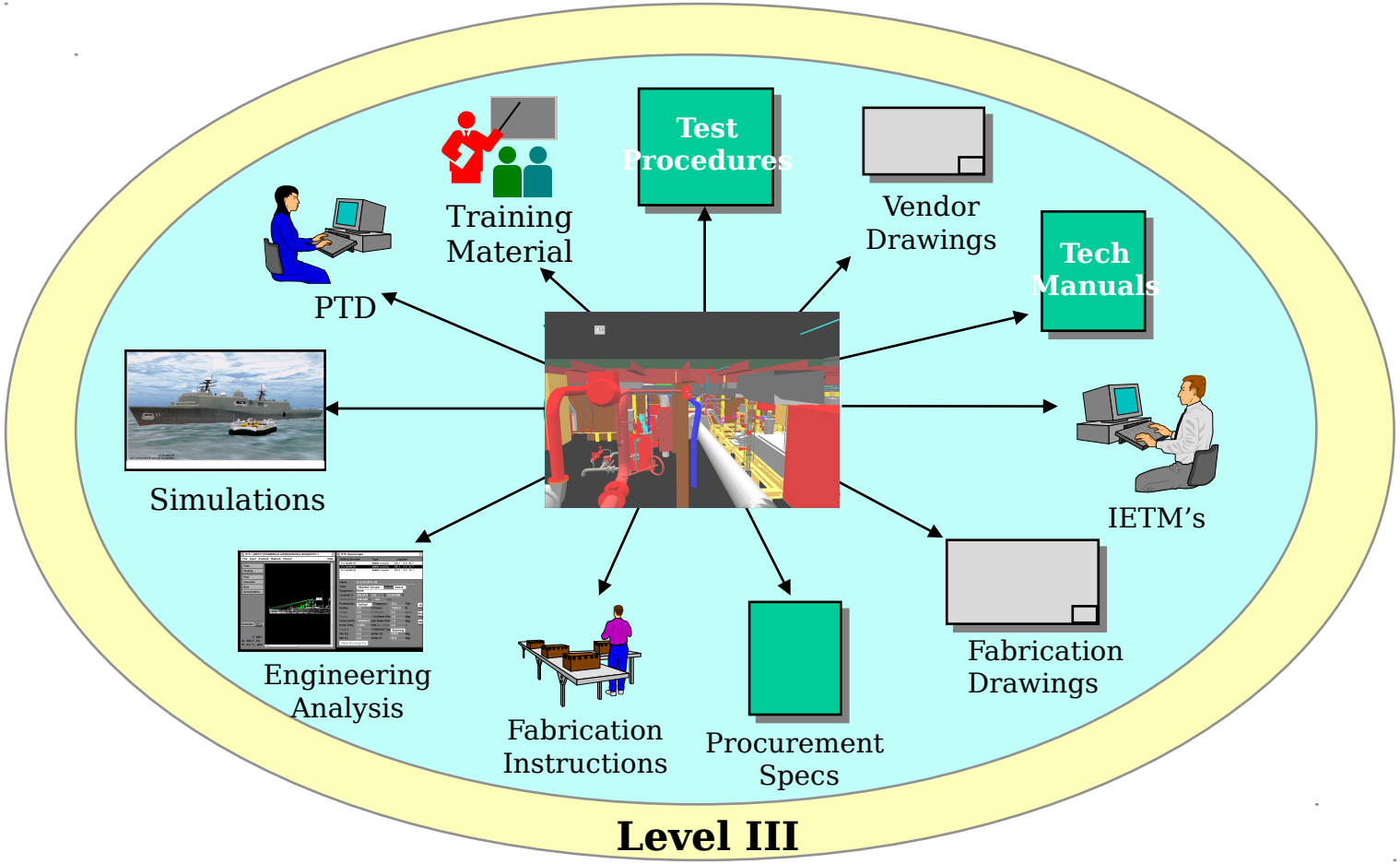


Level I - Product Model Data (3D Geometry + Attributes)
Level II - Support Data (Vendor Drawings, Manuals, GFI, etc.)
Level III - Program Execution Data (MIRWS, IMP, C/SCS, etc.)

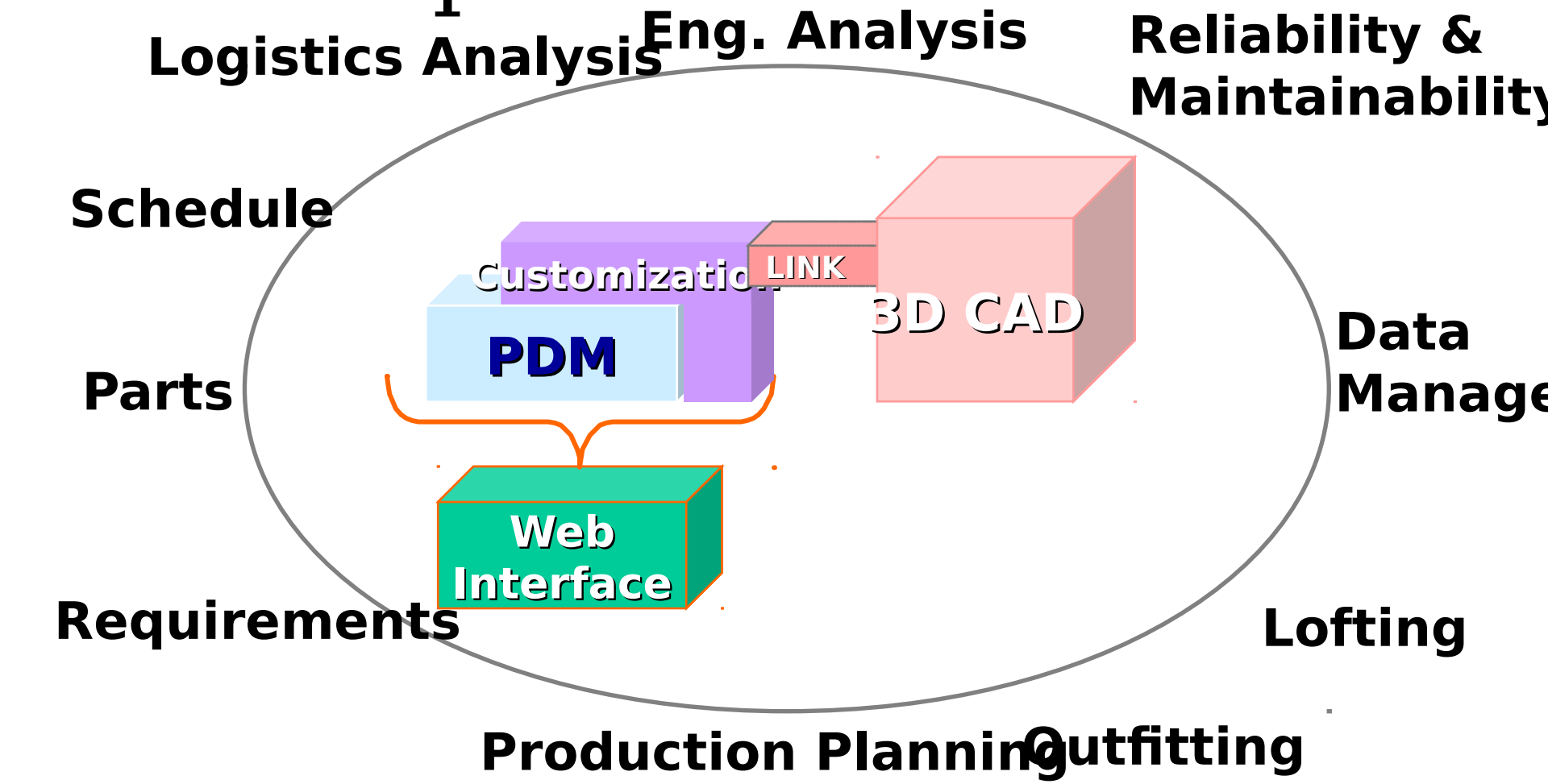
The LPD 17 IPDE: Level 1



3D Model is the Configuration Master

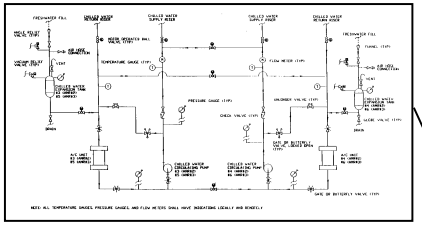


The LPD 17 Implementation

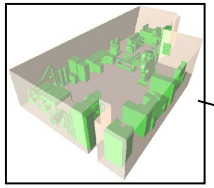


LPD 17 3D Model Approach

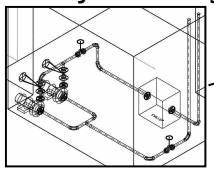
System Development



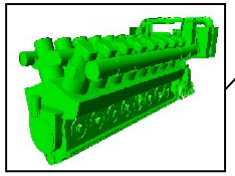
Initial Space Arrangements



Priority Routing



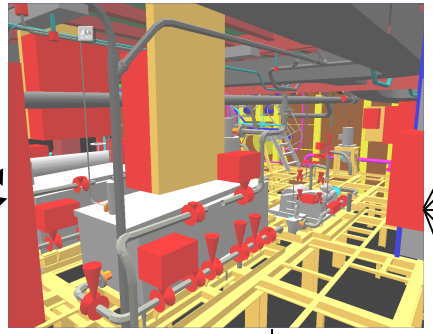
Vendor Furnish Info



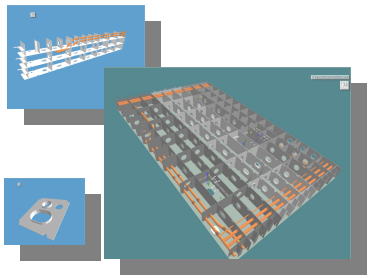
Vendor Drawings

Tech Manuals

3D Model

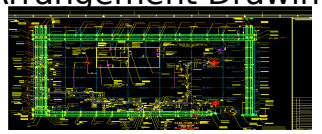


Production Engineering Simulations



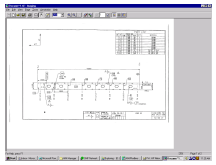
Fleet Review

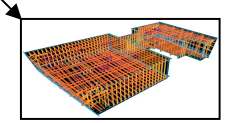
Arrangement Drawings



BOM

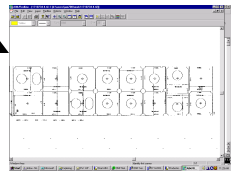
UCM's





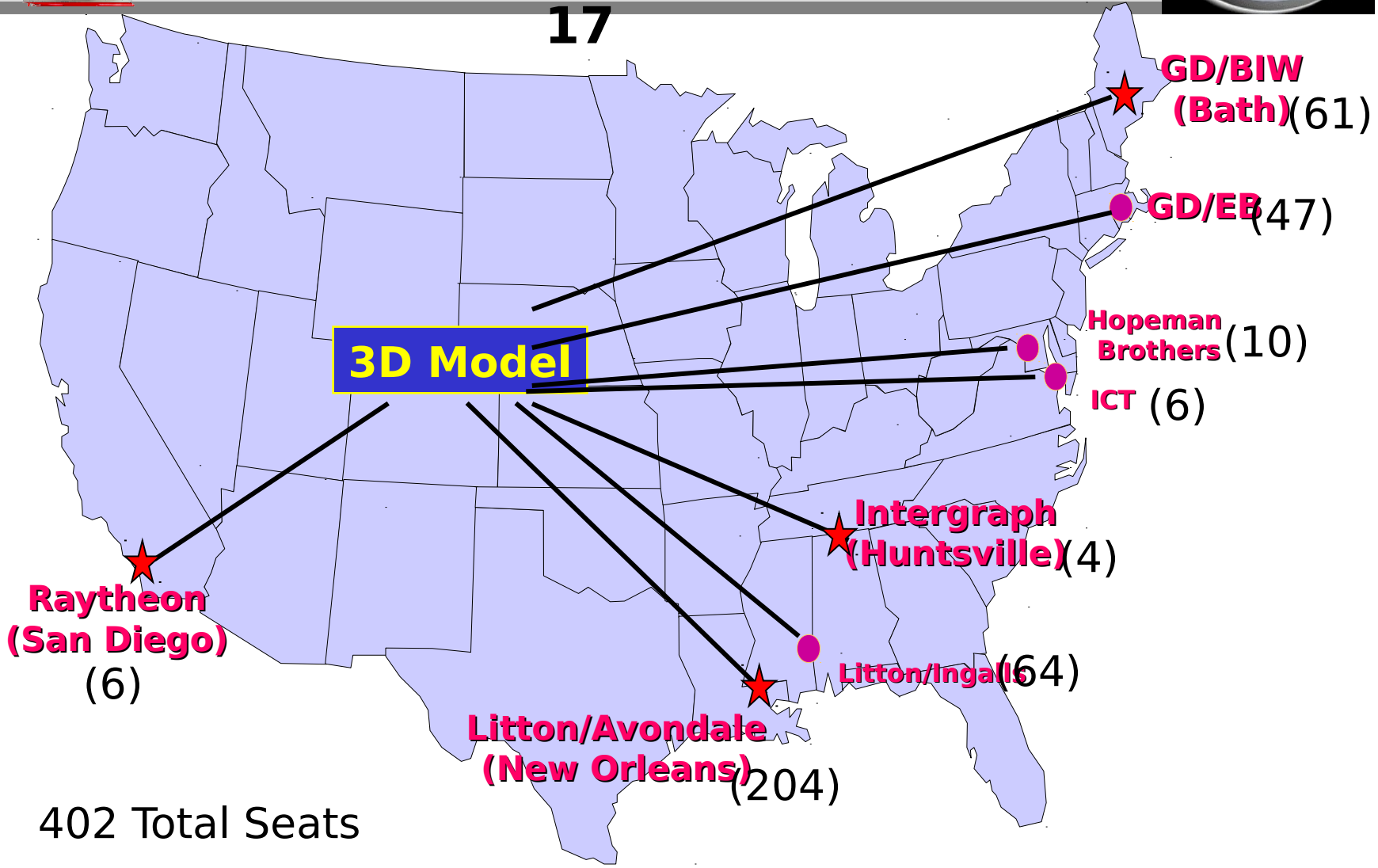
Lofting System

(NC Tapes, etc.)



Production Planning

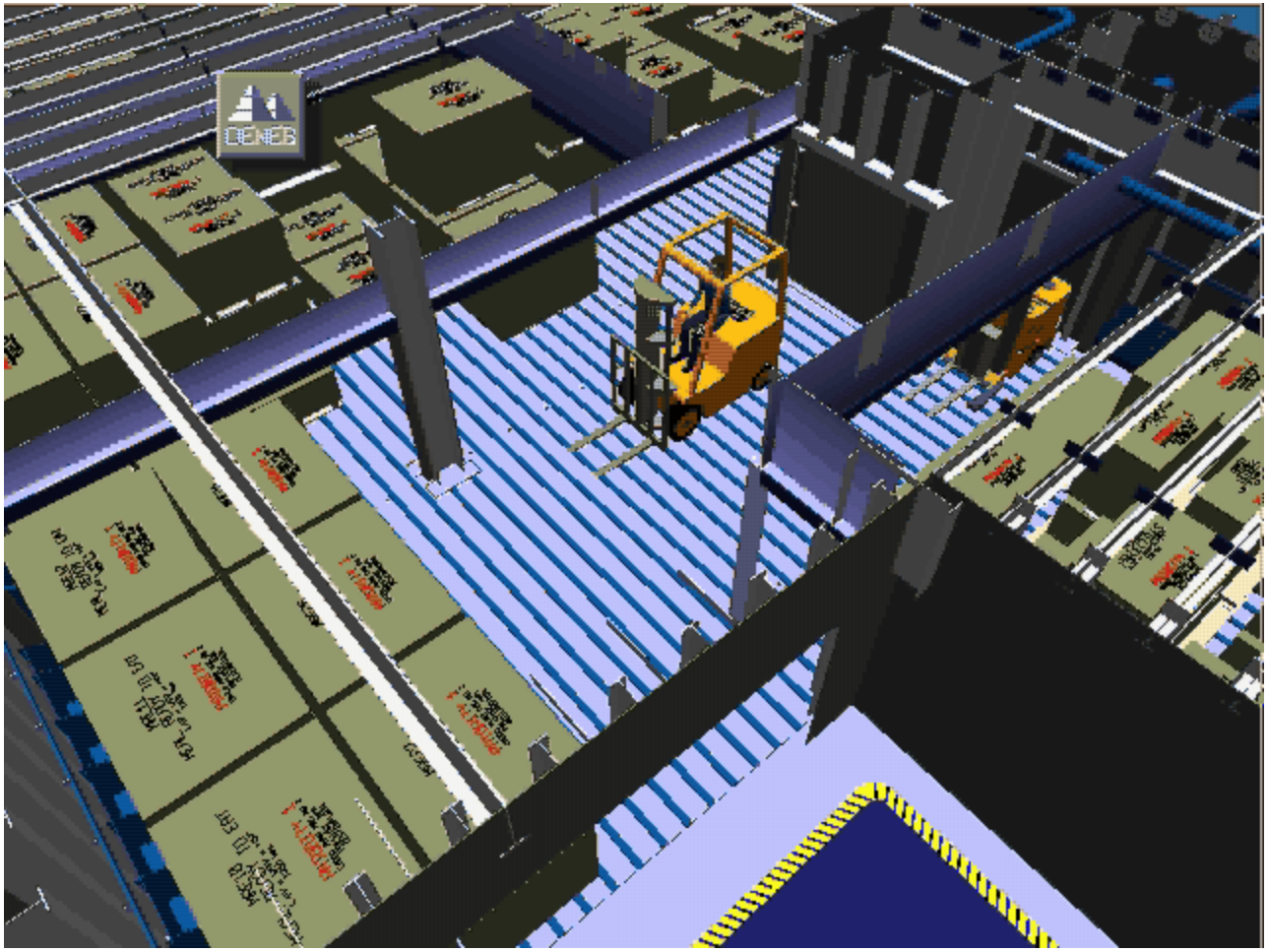
Eight (8) Sites Collaboratively Developing 3D Product Models for LPD 17



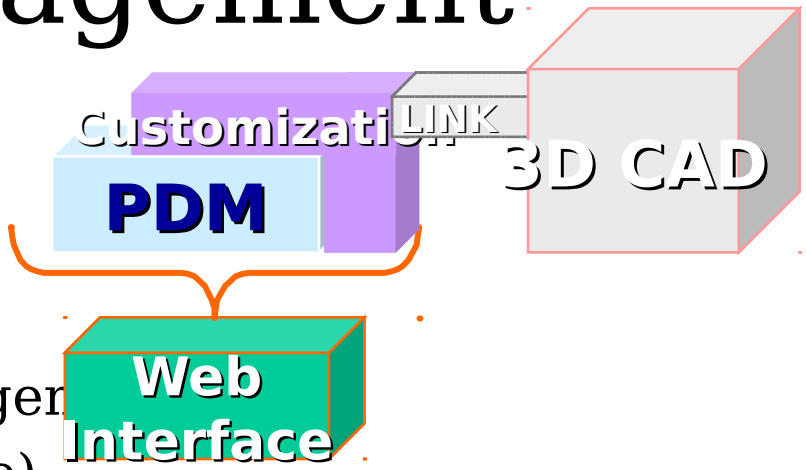
As-Built 3D Model Requirement

Air wake Analysis

Cargo Magazine Flow

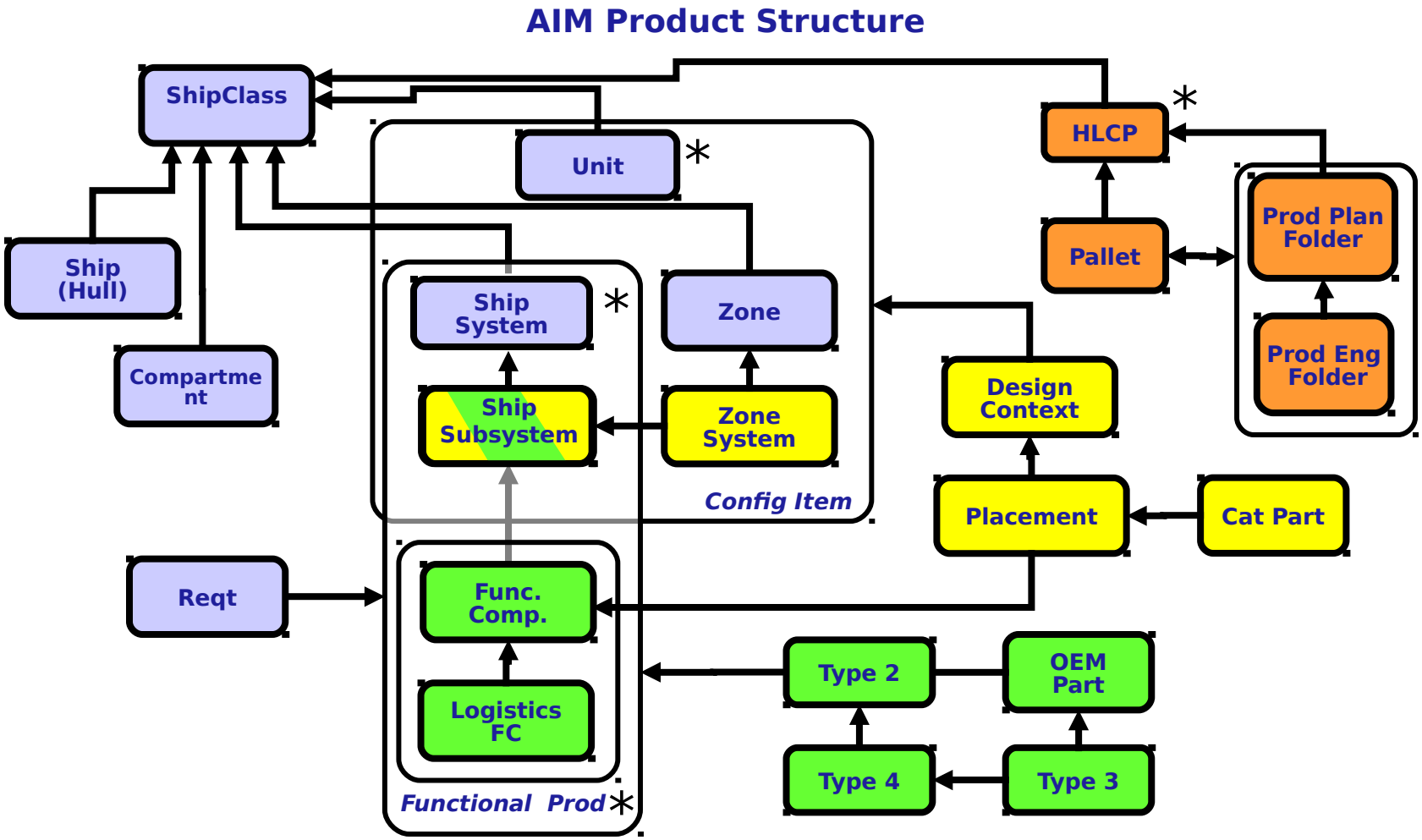


Product Data Management



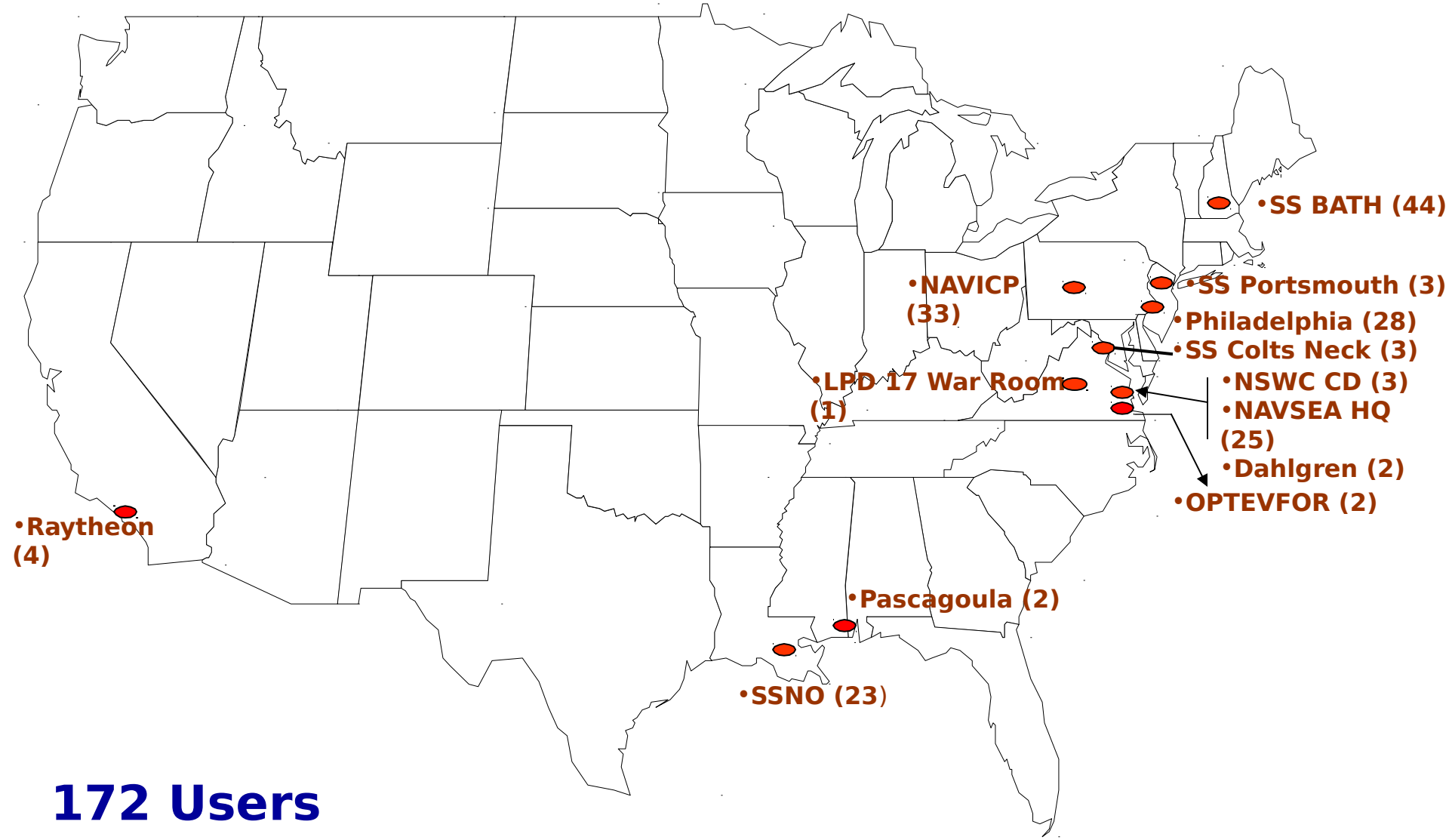
- Asset Information Manager
- COTS application (Oracle).
- Data Repository for all Ship Product Information
- Enables Configuration Management of Drawings, Technical Data, Production Data, 3D Models, etc.
- Connectivity checks complete between HQ, Field Activities and Design Site.
- Personnel able to review products and provide comments electronically. Redline Capability
- Works in conjunction with 3D Modeling Toolset

LPD 17 Product Structure (AIM)



Navy Infrastructure Access

AIM Navigator Status (Off-Sites)



172 Users

Summary

- LPD 17 IPDE in Place and in Use
- Current focus
  - Life Cycle Support Role/Functions
  - Integration with N/MCI
  - Complete the Migration to a Web Based IDE
    - VRML Integration with PDM Data
  - Evolving Security Requirements
    - Firewall Policies, N/MCI, etc.